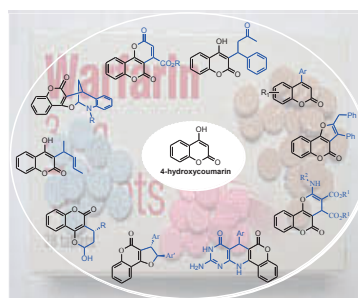


■ REVIEWS

1415 **Recent Application of 4-Hydroxycoumarin in Multi-Component Reactions**

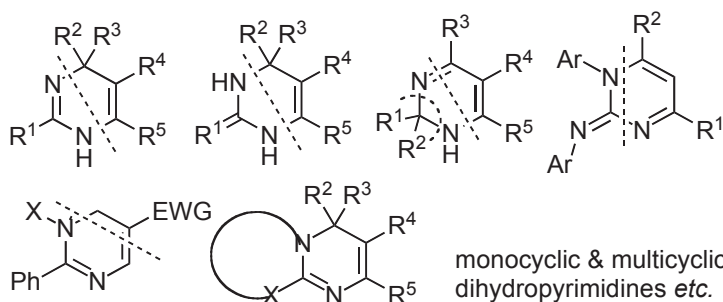
Ghodsi Mohammadi Ziarani* and Parvin Hajiabbasi



Multi-Component Reaction 4-Hydroxycoumarin Asymmetric Synthesis Pyran-Annulated and Furo-Annulated Heterocyclic Compounds

1441 **Dihydropyrimidine**

Hidetsura Cho*



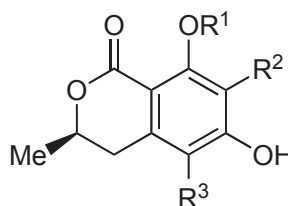
Dihydropyrimidine Tautomerism Ring Cleavage [4+2] Cycloaddition Multicyclic Dihydropyrimidine

monocyclic & multicyclic dihydropyrimidines etc.

■ PAPERS

1481 **Palmaerins A-D, New Chlorinated and Brominated Dihydroisocoumarins with Antimicrobial and Plant Growth Regulating Activities from Discomycete *Lachnum palmae***

Yuka Tanabe, Takunori Matsumoto, Tsuyoshi Hosoya, Hiroyasu Sato, and Hideyuki Shigemori*

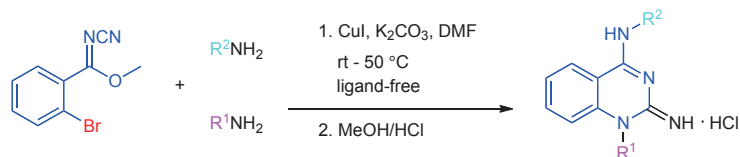


palmaerin A : R¹ = Me, R² = R³ = Cl
 palmaerin B : R¹ = H, R² = R³ = Br
 palmaerin C : R¹ = Me, R² = R³ = Br
 palmaerin D : R¹ = R² = H, R³ = Br

Palmaerins A-D Halogenated Dihydroisocoumarin Discomycete *Lachnum palmae* Plant Growth Regulating Activity

1493 **Synthesis of Novel 1-Alkyl-1,2-dihydro-2-Imino-4-quinazolinamines by Tandem Reaction of the Three Components**

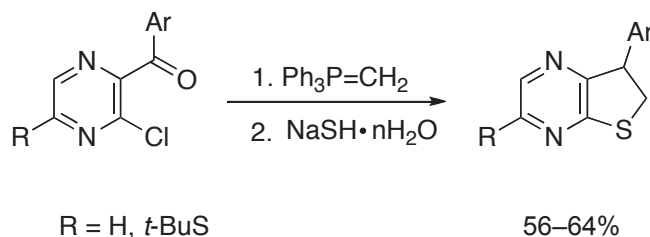
Zhen Guo, Ping Yin, Ling He, and Qing Rong Qi*



Quinazoline Ullmann Coupling Reaction Ligand-Free Reaction Amine

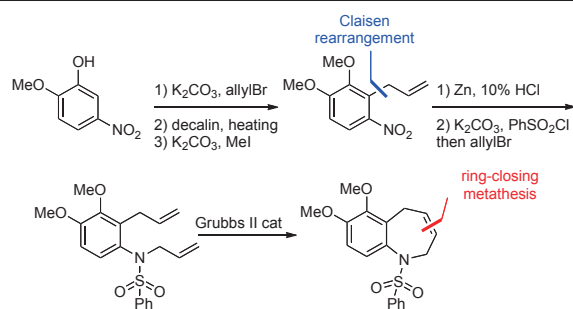
1507 A Convenient Two-Step Synthesis of 7-Aryl-6,7-dihydrothieno[2,3-*b*]pyrazines from Aryl(3-chloropyrazin-2-yl)methanones

Kazuhiro Kobayashi,* Teruhiko Suzuki, and Naoki Matsumoto


 6,7-Dihydrothieno[2,3-*b*]pyrazine Thieno[2,3-*b*]pyrazine 2-Chloropyrazine Sodium Hydrogen Sulfide Dehydrogenation

1519 Synthesis of Dihydro-1-benzazepines

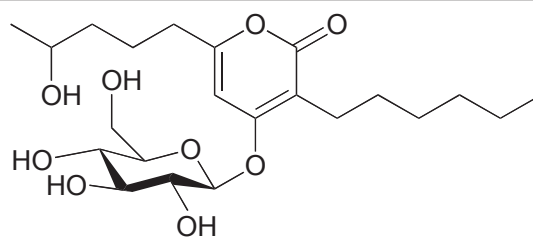
Meng-Yang Chang,* Chieh-Kai Chan, and Shin-Ying Lin



Dihydro-2-benzazepine 2-Methoxy-5-nitrophenol Claisen Rearrangement Sulfonation Ring-Closing Metathesis

SHORT PAPERS
1537 Whitmanoside A, a New α -Pyrone Glycoside from the Leech *Whitmania pigra*

Tao Li, Guo-Cai Wang,* Xiao-Jun Huang, and Wen-Cai Ye*

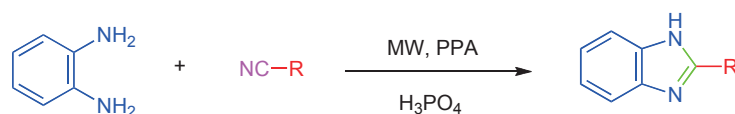


whitmanoside A

Whitmania pigra Hirudinidae Leech α -Pyrone Glycoside

1545 Microwave-Assisted Synthesis of 2-Substituted 1*H*-Benzo[*d*]imidazoles and Their Antifungal Activities *in vitro*

Tao Zhang, Liang-Zhu Huang, Jia Wu, Dong Lu, Bo-Lin Ma, and Zhen-Ting Du*

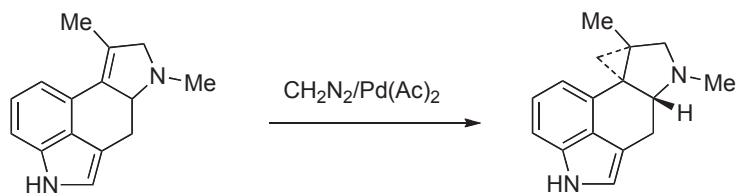


R = 4-fluorophenyl was most promising candidate against six phytopathogenic fungi

 Microwave-Assisted Organic Synthesis 1*H*-Benzo[*d*]imidazole Polyphosphoric Acid (PPA) Antifungal Activity

1553 Cyclopropanation of Carbon-Carbon Double Bonds in Ring D of Ergot Alkaloids

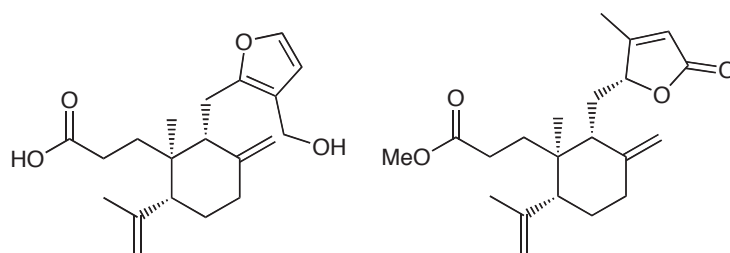
Mária Incze, Gábor Dörnyei, Péter Kovács,
Orsolya Egyed, György Hajós, and
Csaba Szántay*



Ergot Alkaloid Cyclopropanation MM2 Calculation Diazomethane Carbene

1561 *ent*-3,4-*seco*-Labdane Diterpenoids from *Callicarpa nudiflora* Leaves with Anti-inflammatory Activity

Lei Zhang, Jian Huang, Mingsheng Liu,* Cui Zhang,
Guoyu Li, Ke Zhang, Lin Dong, and Jinhui Wang*



ent-3,4-*seco*-Labdane Diterpenoid *Callicarpa nudiflora* Biosynthetic Pathway Anti-inflammatory Activity

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 1571 Polyketides
- 1574 Aromatics
- 1586 Terpenes
- 1593 Alkaloids
- 1603 Miscellaneous

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1605 Polyketides
 - 1609 Aromatics
 - 1613 Terpenes
 - 1615 Alkaloids
 - 1623 Miscellaneous
-

Contributors To This Issue

1519 Chan, Chieh-Kai
1519 Chang, Meng-Yang
1441 Cho, Hidetsura
1561 Dong, Lin
1553 Dörnyei, Gábor
1545 Du, Zhen-Ting
1553 Egyed, Orsolya
1493 Guo, Zhen
1415 Hajiabbasi, Parvin
1553 Hajós, György
1493 He, Ling
1481 Hosoya, Tsuyoshi
1561 Huang, Jian
1545 Huang, Liang-Zhu
1537 Huang, Xiao-Jun
1553 Incze, Mária
1507 Kobayashi, Kazuhiro
1553 Kovács, Péter
1561 Li, Guoyu
1537 Li, Tao
1519 Lin, Shin-Ying
1561 Liu, Mingsheng
1545 Lu, Dong
1545 Ma, Bo-Lin
1507 Matsumoto, Naoki
1481 Matsumoto, Takunori
1493 Qi, Qing Rong
1481 Sato, Hiroyasu
1481 Shigemori, Hideyuki
1507 Suzuki, Teruhiko
1553 Szántay, Csaba
1481 Tanabe, Yuka
1537 Wang, Guo-Cai
1561 Wang, Jinhui
1545 Wu, Jia
1537 Ye, Wen-Cai
1493 Yin, Ping
1561 Zhang, Cui
1561 Zhang, Ke
1561 Zhang, Lei
1545 Zhang, Tao
1415 Ziarani, Ghodsi Mohammadi